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ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

October 1, 1984

Mr. Alfred E. Gallo
John Sexton Contractors Co.
1815 South Wolf Road
Hillside, IL 60162

Dear Mr. Gallo:

In response to my request to conduct site inspections and groundwater sampling at the John Sexton Sand and Gravel Company Landfills in Hinsdale, Bensenville, and Lansing, Illinois, you requested the following:

That all copies of all documents generated by Ecology and Environment, Inc., prior to our scheduled meeting and subsequent thereto, specifically EPA 2070-12 and EPA 2070-13, as prepared by Ecology and Environment, Inc. concerning the above referenced facilities upon completion, be supplied to Sexton and to your attention, prior to:

1) submission to United States Environmental Protection Agency, and

2) any subsequent release to the public so that Sexton may review the above referenced documents for their contents.

Firstly, the Sexton Landfill in Matteson, Illinois has now been added to the list by the U.S. EPA for a site inspection and sampling by Ecology and Environment, Inc., so it will also be included in the above referenced requests.

Secondly, document EPA 2070-12 has been completed by the Illinois Environmental Protection Agency, not Ecology and Environment, Inc., but the U.S. EPA has given us permission to release EPA 2070-12 documents concerning each of the Sexton sites.

Thirdly, since Ecology and Environment, Inc. is a contractor to the U.S. EPA, we must submit any written report to them prior to submittal to any other party, but we, in this case, are able to submit the reports simultaneously to both the U.S. EPA and to Sexton. Since sampling is involved, this may take four to five months due to lab turn around time.

You have also requested that Ecology and Environment, Inc. send you sampling protocols, including the following, prior to any sampling at the Sexton Landfills:

A) Method of sample bottle preparation

B) Detailed description of sampling methodology and equipment required.

C) Sample preservation, storage, and transportation requirements

D) List of parameters

E) Specific analytical protocol for each parameter

F) Data reduction and analysis methodology

G) Copies of chain-of-custody record for each sample taken.

These items can be supplied (see attachments) by Ecology and Environment to Sexton with the exception of Item G. Item G will be submitted to Sexton after sampling is concluded.

You also suggested that you would like your consulting agency, Eldredge Engineering Associates, Inc., to perform the actual sampling to eliminate potential cross contamination. This is acceptable as long as Eldredge Engineering follows this criteria:

1) take water level measurements prior to removal of volumes,

2) remove 3-5 well volumes prior to sampling on the day of sampling,

3) an Ecology and Environment representative is there to observe, and

4) samples are taken with a clean stainless steel bailer.

Also, Ecology and Environment, Inc. will schedule the site inspections to coincide with Sexton's November quarterly monitoring program.

I will arrange a meeting with Sexton for the third or fourth week of October through Larry Boettcher of Sexton.

Sincerely,

Daniel J. Gozza

DJC:3F

Attachments:

A) Method of sample bottle preparation

B) Detailed description of sampling methodology and equipment required

C) List of parameters to be tested for each sample and the preservation and shipping requirements

D) Specific analytical protocol for each parameter and data reduction and analysis methodology.

E) EPA document 2070-12 for each site, Hinsdale, Lansing, Bensenville, and Matteson, Illinois

METHOD OF SAMPLE BOTTLE PREPARATION

VOA Bottles - 40 ml -

- Wash with nonphosphate lab grade detergent
- Rinse 3 times with lab tap water
- Rinse 3 times with distilled water - Type 1

1/2 Gallon Amber Bottle

- Wash with nonphosphate lab grade detergent
- Rinse 3 times with lab tap water
- Rinse with 1:1 nitric acid
- Rinse 3 times with distilled water - Type 1
- Rinse with methylene chloride, pesticide grade, (20 ml)
- Dry in oven for 15 minutes at 125°C
- Cool
- Place lid with teflon liner on bottle

Plastic Bottle - 1 liter

- Wash with nonphosphate lab grade detergent
- Rinse 3 times with lab tap water
- Rinse once with 1:1 nitric acid
- Rinse 3 times with distilled water - Type 1
- Dry in oven at 70°-80°C for 15 minutes
- Cool
- Place lid with teflon liner on bottle

DC:4W

METHOD OF SAMPLE BOTTLE PREPARATION

VOA Bottles - 40 ml -

- Wash with nonphosphate lab grade detergent
- Rinse 3 times with lab tap water
- Rinse 3 times with distilled water - Type 1

1/2 Gallon Amber Bottle

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- Cool
- Place lid with teflon liner on bottle

DC:4W

Groundwater Sampling Protocol

1) Take water levels of all wells.

2) Pump or bail 3 to 5 volumes of water from the well prior to sampling - on the day of sampling.

3) Using a clean stainless steel bailer, decontaminated with a distilled water/acetone/distilled water rinse, collect the samples in the following bottles:

   A) Two - 1/2 gallon amber glass bottles for organics

   B) Two - 40 ml VOA bottles for volatile organics

   C) Two - 1 liter plastic bottles for metals - inorganics

4) The two - 1 liter plastic bottles for metals - organics are to be filtered, using a .45 micron filter into a third - 1 liter bottle prior to preservation with HNO_3. A masterflex pump and filter assembly are used to filter the metals - inorganics samples.

5) The metals - inorganic sample is preserved with nitric acid (HNO_3) to a pH of 2 or less.

6) Conductivity, pH, and temperature readings are taken from each well sampled.

7) Full sample bottles are rinsed with distilled water, dried, and labeled. The labeled bottles are taped shut and placed in plastic bags. The bagged bottles are placed in a cooler with vermiculite and bagged ice. Sample traffic reports and the chain-of-custody are added to the cooler and it is shipped to the lab via next day service.

cc: Don Josif - U.S. EPA